

WHAT IS CLAIMED IS:

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1. A speech enabled automatic name dialer dialing system for connection to a telephone system, utilizing a user computer having a computer-based address book program for retrieval of name-telephone number data therefrom and for creation therefrom of speech enabling phoneme sets for auto dialing by speaking a name utilizing telephone application programming interface, for use with telephones with private branch exchanges, which comprises:

10 (a.) at least one user computer having a microphone and a speaker;

(b.) a telephone application programming interface provider installed in said user computer;

(c.) memory within said at least one user computer for storing, managing and supporting name-telephone number data;

15 (d.) software contained within said user computer, having at least the following functional capabilities:

- (i.) accessing said at name-telephone number data
contained within said at least one user computer;
- (ii.) creating converted phonemes from names of said
name-telephone number data;
- (iii.) receiving voice inputs from a microphone connected
to said user computer;
- (iv.) matching said phonemes and said voice inputs to
retrieve specific name-telephone number data from said computer-based
name-telephone number data for initiating an automatic dialing thereof;
and,
- (v.) signaling to a router and to a private branch exchange
to initiate a dialing of a telephone number and to effect a telephone call
within a telephone system in response to a voice input/phoneme match.

2. The dialing system claim 1 wherein said software further includes the
following functional capability:

(vi.) to prompt a user to take a predescribed action if a voice inputted name does not match available name-telephone number data.

5 3. The dialing system of claim 2 wherein said software further includes the following functional capability:

(vii.) to prompt a user to speak a phone number when a voice inputted name does not match available name-telephone number data; and,

10 (viii.) to convert voice inputted telephone numbers into signals for automatic dialing.

4. The dialing system of claim 3 wherein said software further includes the following functional capability:

15 (ix.) to prompt a user to input name-telephone number data to that computer's name-telephone number data; and,

(x.) to return to automatic dialing of the user requested name after the user has inputted said name-telephone number data.

5 The dialing system of claim 1 wherein said software further includes the following software capability:

(vi) to prompt a user to make a selection for a telephone number for a voice inputted name-telephone number match when that name contains more than one telephone number.

10 6. The dialing system of claim 6 wherein said selection is prompted by audible choices to be voice inputted by a user, said audible choices selected from the group consisting of home, office, fax, cell, answering service, and combinations thereof.

15 7. The dialing system of claim 1 wherein said software includes the following sequence of use:

(1.) user starts-up dialer program;

(2.) speech engine start-up;

(3.) user speaks activation keyword;

(4.) program queries user for contact name;

(5.) if contact name found, if only one number, effects

automatic dialing;

(6.) if contact name found with more than one number,

prompts selection and, after selection is made, effects automatic dialing;

(7.) if contact name not found, dialer does not dial and

awaits further input, if number found, effects automatic dialing, if not,

defaults caller.

8. The dialing system of claim 7 wherein the sequence of use also

includes:

(8.) if contact name is not found, prompts user to create

new entry of name-telephone number data.

9. The dialing system of claim 9 wherein said new entry is created by manual input through a keyboard.

10. The dialing system of claim 9 wherein said new entry is created by voice input.

11. A speech enabled automatic name dialer dialing system for connection to a telephone system, utilizing a user computer having a computer-based address book program for retrieval of name-telephone number data therefrom and for creation therefrom of speech enabling phoneme sets for auto dialing by speaking a name utilizing telephone application programming interface, for use with telephones with private branch exchanges for automatic dialing into a telephone system, which comprises:

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(a.) at least one user computer having a microphone and a speaker;

(b.) a telephone application programming interface provider installed in said user computer;

5 (c.) at least one loaded address book program contained in said at least one user computer;

(d.) an internal network router connected to said at least one user computer for telephone call transmittal via a private branch exchange for dialing through a telephone into a telephone system;

10 (e.) memory within said at least one user computer for storing said at least one loaded address book program, supporting software and name-telephone number data;

(f.) software contained within said user computer, having at least the following functional capabilities:

15 (i.) accessing said at least one loaded address book program contained within said at least one user computer;

(ii.) creating converted phonemes from names of name-telephone number data;

(iii.) receiving voice inputs from a microphone connected to said user computer;

5 (iv.) matching said phonemes and said voice inputs to retrieve specific name-telephone number data from said computer-based address book program for initiating an automatic dialing thereof; and,

(v.) signaling to a router and to a private branch exchange to initiate a dialing of a telephone number and to effect a telephone call within a telephone system in response to a voice input/phoneme match.

10 12. The dialing system claim 11 wherein said software further includes the following functional capability:

(vi.) to prompt a user to take a prescribed action if a
15 voice inputted name does not match available name-telephone number data.

13. The dialing system of claim 12 wherein said software further includes the following functional capability:

(vii.) to prompt a user to speak a phone number when a voice inputted name does not match available name-telephone number data; and,

(viii.) to convert voice inputted telephone numbers into signals for automatic dialing.

14. The dialing system of claim 13 wherein said software further includes the following functional capability:

(ix.) to prompt a user to input name-telephone number data to that user's computer address book program; and,

(x.) to return to automatic dialing of the user requested name after the user has inputted said name-telephone number data.

15. The dialing system of claim 11 wherein said software further includes the following software capability:

(vi) to prompt a user to make a selection for a telephone number for a voice inputted name-telephone number match when that name contains more than one telephone number.

16. The dialing system of claim 15 wherein said selection is prompted by audible choices to be voice inputted by a user, said audible choices selected from the group consisting of home, office, fax, cell, answering service, and combinations thereof.

17. The dialing system of claim 11 wherein said software includes the following sequence of use:

- (1.) user starts-up dialer program;
- (2.) speech engine start-up;
- (3.) user speaks activation keyword;

(4.) program queries user for contact name;

(5.) if contact name found, if only one number, effects

automatic dialing;

(6.) if contact name found with more than one number,

prompts selection and, after selection is made, effects automatic dialing;

(7.) if contact name not found, dialer does not dial and

awaits further input, if number found, effects automatic dialing, if not,

defaults caller.

18. The dialing system of claim 17 wherein the sequence of use also

includes:

(8.) if contact name is not found, prompts user to create

new entry of name-telephone number data.

19. The dialing system of claim 19 wherein said new entry is created by

manual input through a keyboard.

20. The dialing system of claim 19 wherein said new entry is created
by voice input.

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